

~~A3233.ST25~~  
SEQUENCE LISTING

<110> Marcireau, Christophe  
Multon, Marie-Christine  
Polard-Houset, Valerie

<120> MEKK1-INTERACTING FHA PROTEIN

<130> A3233

<140> 09/744,125

<141> 2001-01-19

<150> PCT/EP99/05142

<151> 1999-07-21

<150> 60/093,590

<151> 1998-07-21

<160> 16

<170> PatentIn version 3.0

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<212> DNA

<213> Homo sapiens

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ccctggactc accaagcgtg tgaagaagag taaacagcca cttcaggtga ccaaggatct	180
gggccgctgg aagcctgcaa atgacctcct gctcataaat gctgtgttgc agaccaacga	240
cctgacctcc gtccacctgg gcgtgaaatt cagctgccgc ttcaccttc gggagggtcca	300
ggagcgttgg tacgccctgc tctacgatcc tgtcatctcc aagttggcct gtcaggccat	360
gaggcagctg caccagagg ctattgcagc catccagagc aaggccctgt ttagcaaggc	420
tgaggagcag ctgctgagca aagtgggata gaccagccag ccacaccttg agaccttcca	480
ggacctgctg cacagacacc ctgatgcctt ctacctggcc cgtaccgcga aggccctgca	540
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gccccaaagg gaccaagtgc tgaacttctc tgatgcagag gacctgattg atgacagtaa	660
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gaagcgagag attcggcagc tggaacagga actgcataag tggcaggtgc tagtggacag	780
catcacaggc atgagctctc cggacttcga caaccagaca ctggcagtg tgcggggccg	840
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cccctcccca tcttctctc tctaaaaaca accctacccc ccattctacc cccattgcc      1440
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<210> 2  
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Pro Ser Ser Ser Glu Lys Lys Lys Val Ser Lys Ala Pro Ser Thr Pro
20          25          30

Val Pro Pro Ser Pro Ala Pro Ala Pro Gly Leu Thr Lys Arg Val Lys
35          40          45

Lys Ser Lys Gln Pro Leu Gln Val Thr Lys Asp Leu Gly Arg Trp Lys
50          55          60

Pro Ala Asn Asp Leu Leu Leu Ile Asn Ala Val Leu Gln Thr Asn Asp
65          70          75          80

Leu Thr Ser Val His Leu Gly Val Lys Phe Ser Cys Arg Phe Thr Leu
85          90          95

Arg Glu Val Gln Glu Arg Trp Tyr Ala Leu Leu Tyr Asp Pro Val Ile
100         105         110

Ser Lys Leu Ala Cys Gln Ala Met Arg Gln Leu His Pro Glu Ala Ile
115         120         125

Ala Ala Ile Gln Ser Lys Ala Leu Phe Ser Lys Ala Glu Glu Gln Leu
130         135         140

Leu Ser Lys Val Gly Ser Thr Ser Gln Pro Thr Leu Glu Thr Phe Gln
145         150         155         160

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Asp Leu Leu His Arg His Pro Asp Ala Phe Tyr Leu Ala Arg Thr Ala  
165 170 175

Lys Ala Leu Gln Ala His Trp Gln Leu Met Lys Gln Tyr Tyr Leu Leu  
180 185 190

Glu Asp Gln Thr Val Gln Pro Leu Pro Lys Gly Asp Gln Val Leu Asn  
195 200 205

Phe Ser Asp Ala Glu Asp Leu Ile Asp Asp Ser Lys Leu Lys Asp Met  
210 215 220

Arg Asp Glu Val Leu Glu His Glu Leu Met Val Ala Asp Arg Arg Gln  
225 230 235 240

Lys Arg Glu Ile Arg Gln Leu Glu Gln Glu Leu His Lys Trp Gln Val  
245 250 255

Leu Val Asp Ser Ile Thr Gly Met Ser Ser Pro Asp Phe Asp Asn Gln  
260 265 270

Thr Leu Ala Val Leu Arg Gly Arg Met Val Arg Tyr Leu Met Arg Ser  
275 280 285

Arg Glu Ile Thr Leu Gly Arg Ala Thr Lys Asp Asn Gln Ile Asp Val  
290 295 300

Asp Leu Ser Leu Glu Gly Pro Ala Trp Lys Ile Ser Arg Lys Gln Gly  
305 310 315 320

Val Ile Lys Leu Lys Asn Asn Gly Asp Phe Phe Ile Ala Asn Glu Gly  
325 330 335

Arg Arg Pro Ile Tyr Ile Asp Gly Arg Pro Val Leu Cys Gly Ser Lys  
340 345 350

Trp Arg Leu Ser Asn Asn Ser Val Val Glu Ile Ala Ser Leu Arg Phe  
355 360 365

Val Phe Leu Ile Asn Gln Asp Leu Ile Ala Leu Ile Arg Ala Glu Ala  
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Ala Lys Ile Thr Pro Gln  
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<211> 669  
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<213> Artificial

<220>  
<223> Sequence of the insert of the plasmid pCM524

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ggaatTTTTT tatgggataa ccttggaagt attgccaac acttcctcct aaattctatt 360
gttcagaaat cagacacaaa atctcactta agcaaggaag cctgaaaaat gtagtagaac 420
tgtgtgatta ggagaaagta atgggtttgg tgagtacgta ttagtatctc tcacattggg 480
agaaatggct ttttatatgt ttttaagaaa caaatTTTgt tatctttctc tccattggct 540
ccattgcccc agcaaagtag tagaacaaaa ataatatatt ttaaaattta acattatata 600
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aaactcgag 669

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<210> 4
<211> 128
<212> PRT
<213> Artificial

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<220>
<223> deduced amino acid sequence of the insert of the plasmid pCM524

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<400> 4

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Leu Gln Glu Val Leu Glu Arg Glu Arg Arg Glu Leu Glu Lys Leu Tyr
          20          25          30
Gln Glu Arg Lys Met Ile Glu Glu Ser Leu Lys Ile Lys Ile Lys Lys
          35          40          45
Glu Leu Glu Met Glu Asn Glu Leu Glu Met Ser Asn Gln Glu Ile Lys
          50          55          60
Asp Lys Ser Ala His Ser Glu Asn Pro Leu Glu Lys Tyr Met Lys Ile
65          70          75          80
Ile Gln Gln Glu Gln Asp Gln Glu Ser Ala Asp Lys Ser Ser Lys Lys
          85          90          95
Met Val Gln Glu Gly Ser Leu Val Asp Thr Leu Gln Ser Ser Asp Lys
          100         105         110
Val Glu Ser Leu Thr Gly Phe Ser His Glu Glu Leu Asp Asp Ser Trp
          115         120         125

```

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<210> 5
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<212> DNA

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<213> Artificial

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<223> Insert of plasmid pCM482

<400> 5

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atcctcaaat atgagtggtt taacatttat ataaagtga aaacataggt taccaattag      180
ctgggagctc tcatccaagt ggtgattcag taatccaggc tcctttcatt ttgtggctcc      240
tctatattca acatataact actgaagtca ttgctgacag cagcatggga aatcccagta      300
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gttcagaaat cagacacaaa atctcactta agcaaggaag cctgaaaaat gtagtagaac      420
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agaaatggct ttttatatgt ttttaagaaa caaatTTTgt tatctttctc tccattggct      540
ccattgcccc agcaaagtag tagaacaaaa ataatatatt ttaaaattta acattatata      600
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aaactcgag                                         669

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<210> 6

<211> 50

<212> PRT

<213> Artificial

<220>

<223> Deduced amino acid sequence of insert of plasmid pCM482

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Trp Gln Val Phe Phe Val Ser Lys Asn Glu Phe Leu Leu Asn Lys Val
          20           25           30
Ile Val Ala Ile Val Thr Asn Lys Ser Ser Asn Met Ser Gly Leu Thr
          35           40           45
Phe Ile
          50

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<210> 7

<211> 1914

<212> DNA

<213> Murinae gen. sp.

<400> 7

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accagtggct ttgggactgt aagaggatgg acaaagattc tcaggggctg ctagattcat	180
ccctgatggc atcaggcact gccagccgct cagaggatga ggagtcactg gcagggcaga	240
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cccctggact caccaagcgt gtgaagaaga gtaaacagcc acttcaggtg accaaggatc	540
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gcattggtgcg gtacctgatg cgctcgcgtg agatcacccct gggcagagca accaaggata	1260
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caccttcact cctgtgtctc cagctgatta gcctcagact cttcttttat tgtttttctt 1860

ttgtaaataa aaagcaccag gttccaaagt aaaaaaaaaa aaaaaaaact cgag 1914

<210> 8

<211> 462

<212> PRT

<213> Murinae gen. sp.

<400> 8

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20 25 30

Arg Ala Ser Ser Gln Ala Leu Gly Thr Ile Pro Lys Arg Arg Ser Ser  
35 40 45

Ser Arg Phe Ile Lys Arg Lys Lys Phe Asp Asp Glu Leu Val Glu Ser  
50 55 60

Ser Leu Ala Lys Ser Ser Thr Arg Ala Lys Gly Ala Ser Gly Val Glu  
65 70 75 80

Pro Gly Arg Cys Ser Gly Ser Glu Pro Ser Ser Ser Glu Lys Lys Lys  
85 90 95

Val Ser Lys Ala Pro Ser Thr Pro Val Pro Pro Ser Pro Ala Pro Ala  
100 105 110

Pro Gly Leu Thr Lys Arg Val Lys Lys Ser Lys Gln Pro Leu Gln Val  
115 120 125

Thr Lys Asp Leu Gly Arg Trp Lys Pro Ala Asp Asp Leu Leu Leu Ile  
130 135 140

Asn Ala Val Leu Gln Thr Asn Asp Leu Thr Ser Val His Leu Gly Val  
145 150 155 160

Lys Phe Ser Cys Arg Phe Thr Leu Arg Glu Val Gln Glu Arg Trp Tyr  
165 170 175

Ala Leu Leu Tyr Asp Pro Val Ile Ser Lys Leu Ala Cys Gln Ala Met  
180 185 190

Arg Gln Leu His Pro Glu Ala Ile Ala Ala Ile Gln Ser Lys Ala Leu  
195 200 205

Phe Ser Lys Ala Glu Glu Gln Leu Leu Ser Lys Val Gly Ser Thr Ser  
210 215 220

Gln Pro Thr Leu Glu Thr Phe Gln Asp Leu Leu His Arg His Pro Asp  
225 230 235 240

Ala Phe Tyr Leu Ala Arg Thr Ala Lys Ala Leu Gln Ala His Trp Gln

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Pro	Lys	Gly	Asp	Gln	Val	Leu	Asn	Phe	Ser	Asp	Ala	Glu	Asp	Leu	Ile				
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Asp	Asp	Ser	Lys	Leu	Lys	Asp	Met	Arg	Asp	Glu	Val	Leu	Glu	His	Glu				
	290					295					300								
Leu	Met	Val	Ala	Asp	Arg	Arg	Gln	Lys	Arg	Glu	Ile	Arg	Gln	Leu	Glu				
305					310					315					320				
Gln	Glu	Leu	His	Lys	Trp	Gln	Val	Leu	Val	Asp	Ser	Ile	Thr	Gly	Met				
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Ser	Ser	Pro	Asp	Phe	Asp	Asn	Gln	Thr	Leu	Ala	Val	Leu	Arg	Gly	Arg				
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Met	Val	Arg	Tyr	Leu	Met	Arg	Ser	Arg	Glu	Ile	Thr	Leu	Gly	Arg	Ala				
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Trp	Lys	Ile	Ser	Arg	Lys	Gln	Gly	Val	Ile	Lys	Leu	Lys	Asn	Asn	Gly				
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Asp	Phe	Phe	Ile	Ala	Asn	Glu	Gly	Arg	Arg	Pro	Ile	Tyr	Ile	Asp	Gly				
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Arg	Pro	Val	Leu	Cys	Gly	Ser	Lys	Trp	Arg	Leu	Ser	Asn	Asn	Ser	Val				
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Val	Glu	Ile	Ala	Ser	Leu	Arg	Phe	Val	Phe	Leu	Ile	Asn	Gln	Asp	Leu				
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<220>  
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 <211> 18  
 <212> DNA  
 <213> Artificial

<220>



<223> Primer

<400> 10

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18

<210> 11

<211> 26

<212> DNA

<213> Artificial

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<223> primer

<400> 11

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26

<210> 12

<211> 56

<212> DNA

<213> Artificial

<220>

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<400> 12

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56

<210> 13

<211> 56

<212> DNA

<213> Artificial

<220>

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<400> 13

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56

<210> 14

<211> 26

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26

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<211> 53

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<400> 15

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<211> 53

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